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NOTICE OF ALLOWANCE AND FEE(S) DUE

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08/21/2009

FRISHAUF, HOLTZ, GOODMAN & CHICK, PC 220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708 EXAMINER

JEAN-LOUIS, SAMIRA JM

ART UNIT PAPER NUMBER

1617

DATE MAILED: 08/21/2009

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l	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/562,742	12/29/2005	Kyoichi Shimomura	05832/HG	7803

TITLE OF INVENTION: INHIBITOR OF PAIN THRESHOLD DECREASE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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220 Fifth Avenu 16TH Floor	e	^{/2009} AN & CHICK, PC	I	Cer hereby certify that th ates Postal Service y	tificate is Fee(s	of Mailing or Transn) Transmittal is being	
NEW YORK, N	Y 10001-7708		<u></u>				(Depositor's name)
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							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/562,742 ITLE OF INVENTION	12/29/2005 : INHIBITOR OF PAIN	THRESHOLD DECREA	Kyoichi Shimomura ASE			05832/HG	7803
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	11/23/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7			
JEAN-LOUIS,	SAMIRA JM	1617	514-367000	_			
FR 1.363). Change of corresp Address form PTO/SE "Fee Address" inde PTO/SB/47; Rev 03-0 Number is required.		2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
(A) NAME OF ASSIC	GNEE	ified below, no assignee oletion of this form is NO categories (will not be pr	(B) RESIDENCE: (Cl	TY and STATE OR C	COUNT	RY)	cument has been filed for
	are submitted: To small entity discount p	permitted)	o. Payment of Fee(s): (P A check is enclosed Payment by credit of The Director is here overpayment, to De	l. eard. Form PTO-2038	is atta	ched.	hown above) iciency, or credit any extra copy of this form).
a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no l				
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,742	12/29/2005	Kyoichi Shimomura	05832/HG	7803
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FRISHAUF, HO	LTZ, GOODMAN &	JEAN-LOUIS, SAMIRA JM		
220 Fifth Avenue		ART UNIT	PAPER NUMBER	
16TH Floor NEW YORK, NY	10001-7708		1617 DATE MAILED; 08/21/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 546 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 546 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/562,742	SHIMOMURA ET AL.
Notice of Allowability	Examiner	Art Unit
	SAMIRA JEAN-LOUIS	1617
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>05/04/09</u> .		
2. The allowed claim(s) is/are 13,15 and 25-29 (renumbered	<u>1-7)</u> .	
 Acknowledgment is made of a claim for foreign priority ur All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have Certified copies of the certified copies of the priority documents have The copies of the priority documents have More than 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. ** Certified copies of the priority documents have 	been received. been received in Application No cuments have been received in this communication to file a reply received in this communication to file a reply received in the received in the received in this communication to file a reply received in this communication to file a reply received in this received in the received in this receive	national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the 	con's Patent Drawing Review(PTO- s Amendment / Comment or in the O .84(c)) should be written on the drawir	office action of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5.	otent Application
 Notice of Neterences Gled (P10-092) Dotice of Draftperson's Patent Drawing Review (PT0-948) 	6. ☐ Interview Summary	
	Paper No./Mail Dat 7. ⊠ Examiner's Amendn	ė
 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 06/19/09 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 		nt of Reasons for Allowance

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard S. Barth on August 03, 2009.

The application has been amended as follows:

- 1. Claims 17, 19, 21, and 23 are all cancelled.
- 2. Claims 25, line 2 <u>delete</u> "administer" and <u>insert</u> "administered.".

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

Applicant's amendments to the claims filed May 05, 2009 has been fully considered. In light of the Applicant's amendment, filing of a terminal disclaimer, and

given that applicant has perfected the foreign priority filing date and in light of the Examiner's amendment, claims 13, 15, and 25-29 are allowed (renumbered 1-7).

In light of the cancellation of claim 11, and amendment to the claims, the 112, first paragraph rejection is withdrawn.

The terminal disclaimer filed on 05/04/09 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. patent 7,410,987 has been reviewed and is accepted. The terminal disclaimer has been recorded. Thus, in light of the filing of the terminal disclaimer the ODP rejection is withdrawn.

Given that applicant has perfected priority of the Japanese application 270967, the earliest priority date of the instant invention is July 04, 2003. Since the earliest date of Tokai 7,410,987 is October 09, 2003, Tokai 7,410,987 is no longer prior art over the instant invention. Consequently, the 103 (a) rejection of claims 11, 13, 15, and 25 as being unpatentable over Tokai 7,410,987 is withdrawn.

The following is an examiner's statement of reasons for allowance: Claims 13, 15, and 25-29 are drawn to a method for treating chronic pain comprising administering to a patient an effective amount of a k-opioid represented by the formula:

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or a pharmaceutically acceptable salt thereof. The closest art is Tokai et al. (U.S. Patent, 7,410,987). Tokai et al. teach a method of treating pain comprising administering to a patient in need thereof a pharmaceutically effective amount of a k-opioid receptor agonist of the aforementioned formula wherein R1 is acyl, R2 is halogen, R3 is an alkoxy group, R4 is an alkyl, R5 is A2R6, A1 and A2 are alkylene groups and R6 is an alkoxy group (see col. 3, lines 53-67 and col. 4, lines 1-12 and 21-54). Moreover, Tokai et al. teach applicant's elected species, compound C and salts of the invention, including tartrate salts (see col. 6, lines 23-34 and col. 12, lines 1-20). Tokai et al. do not teach a method of treating chronic pain or a method wherein the k-opioid receptor agonist is continuously administered. Additionally, applicant has perfected priority to the instant invention and therefore Tokai is not available as prior art. Claims 13, 15, and 25-29 are therefore allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 13, 15, and 25-29 are allowed (renumbered 1-7).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samira Jean-Louis whose telephone number is 571-270-3503. The examiner can normally be reached on 7:30-6 PM EST M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. J. L. /

Examiner, Art Unit 1617

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08/03/2009

/SREENI PADMANABHAN/

Supervisory Patent Examiner, Art Unit 1617